

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P842340

Luminaire Tested: **ARCH4-300-740-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842340
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-300-740-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42924 lumens
Efficiency: N/A
Efficacy: 143.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 299.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



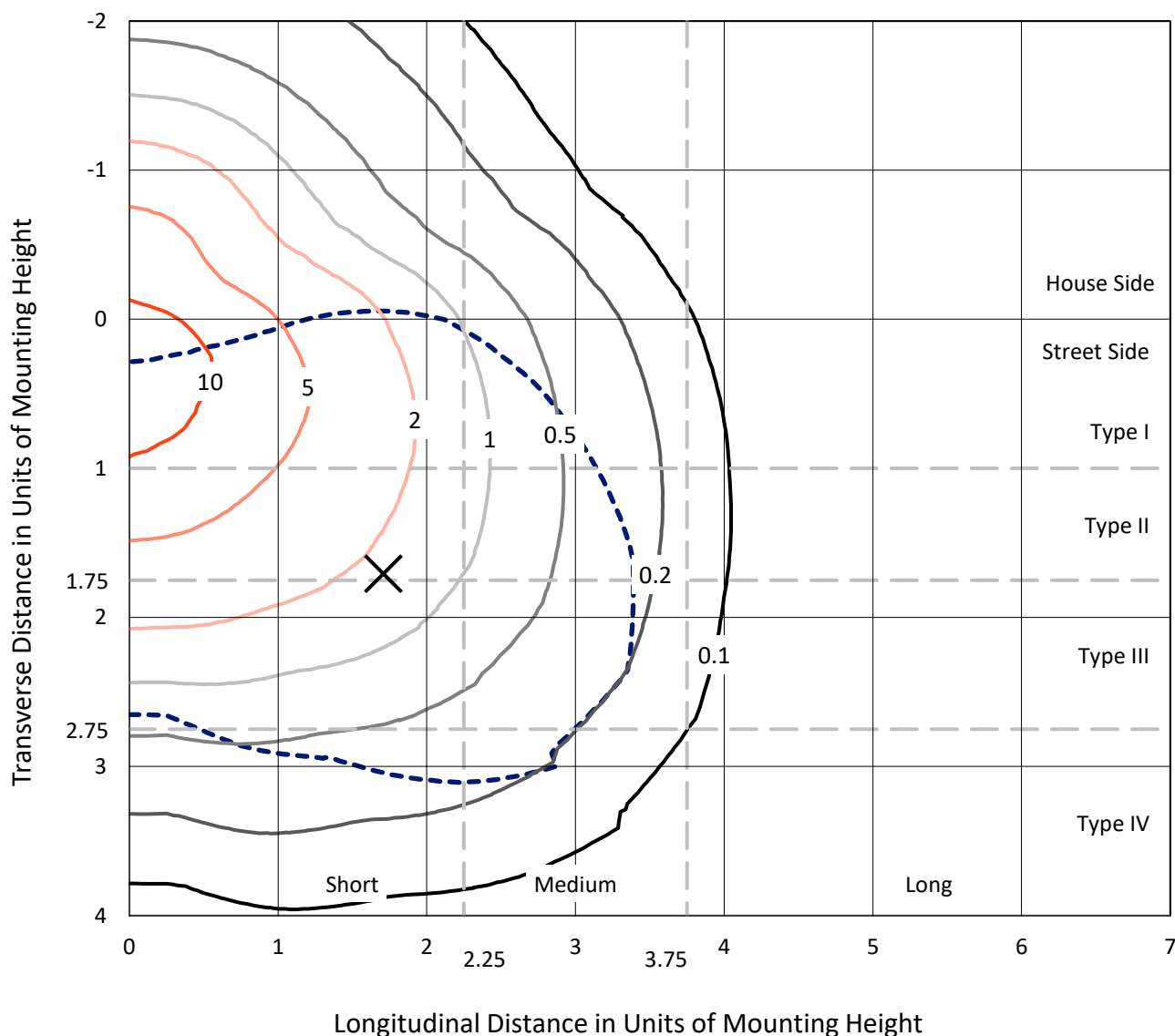
REPORT NUMBER: P842340

CATALOG NUMBER: ARCH4-300-740-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

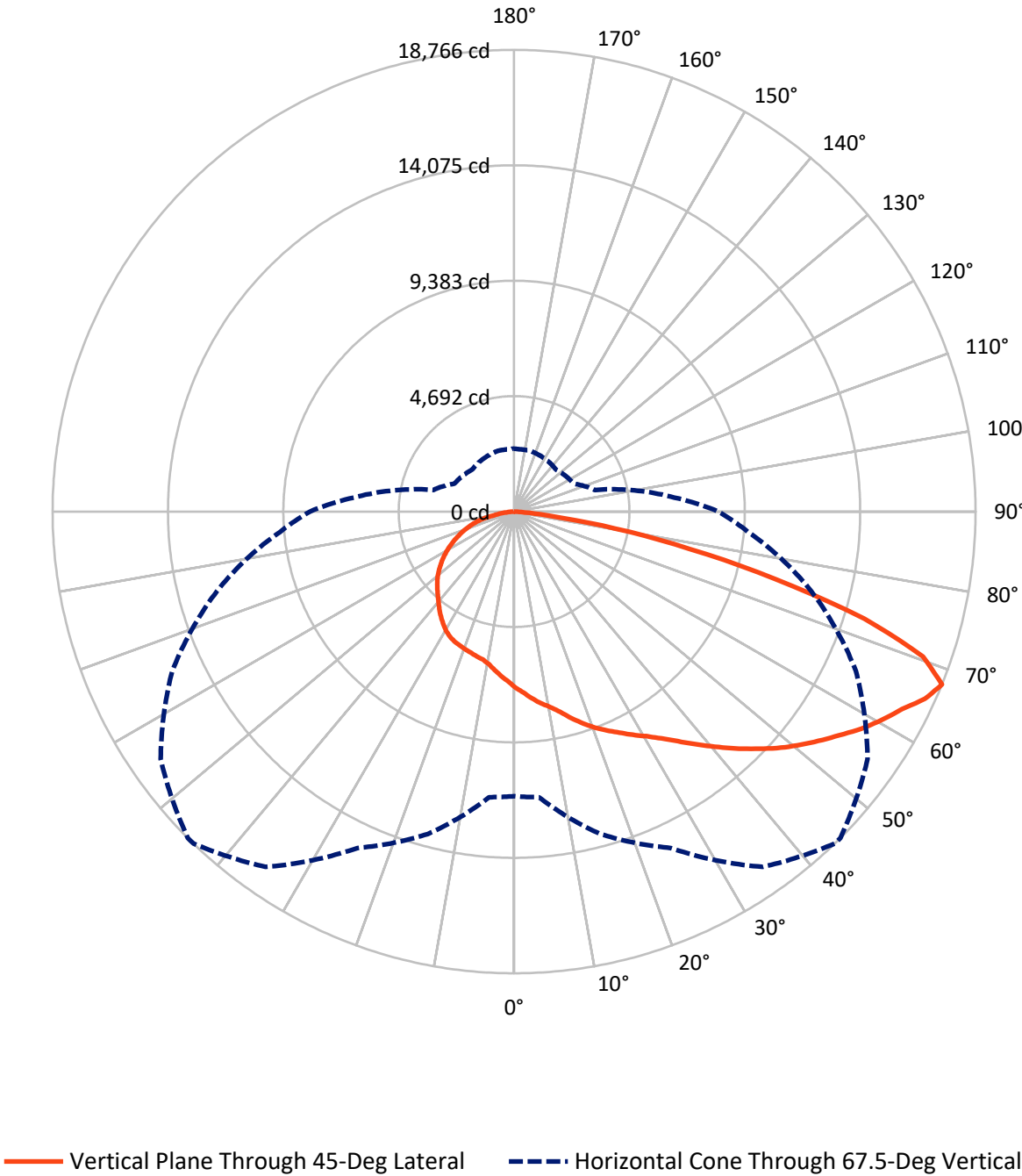


Based on 25 foot mounting height. Maximum calculated value = 13.3 fc

Type IV - Short - N/A

REPORT NUMBER: P842340
CATALOG NUMBER: ARCH4-300-740-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P842340

CATALOG NUMBER: ARCH4-300-740-U-T4W

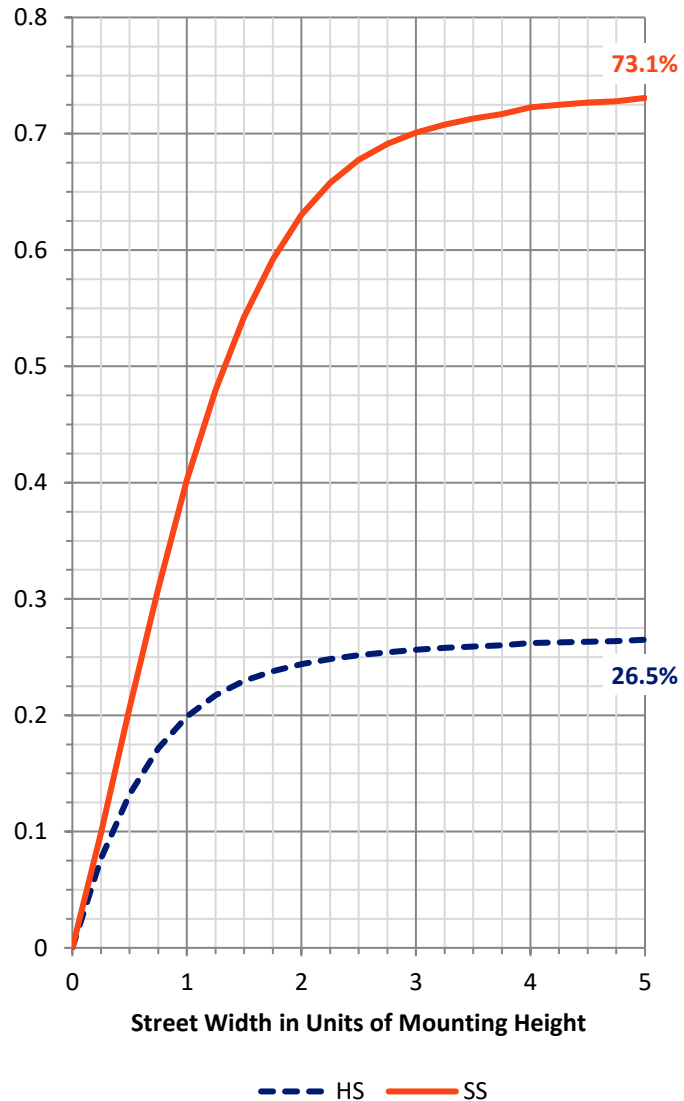
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11467.2	0.0	11467.2
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	31456.8	0.0	31456.8
	% Fixture	73.3	0.0	73.3
Total	Lumens	42924.0	0.0	42924.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	685.4	1.6
10°-20°	2117.4	4.9
20°-30°	3654.8	8.5
30°-40°	5389.6	12.6
40°-50°	7301.9	17.0
50°-60°	8924.6	20.8
60°-70°	9204.5	21.4
70°-80°	5041.6	11.7
80°-90°	604.3	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	42924.0	100.0
0°-180°	42924.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842340

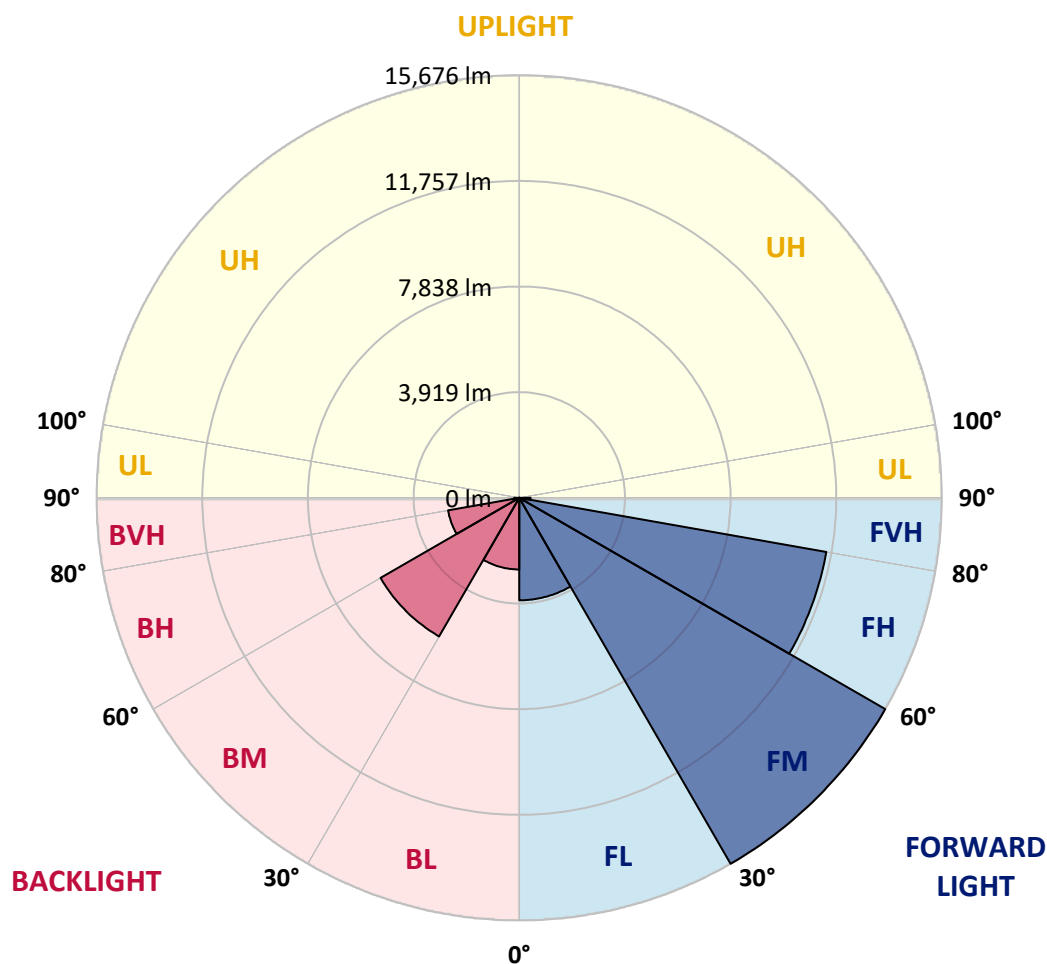
CATALOG NUMBER: ARCH4-300-740-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3799.9	8.9			
FM	(30°-60°)	15676.3	36.5			
FH	(60°-80°)	11564.4	26.9			G4/12000
FVH	(80°-90°)	416.3	1.0			G3/500
BL	(0°-30°)	2657.7	6.2	B4/5000		
BM	(30°-60°)	5939.8	13.8	B4/8500		
BH	(60°-80°)	2681.7	6.2	B4/5000		G4/5000
BVH	(80°-90°)	188.0	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type IV Short



REPORT NUMBER: P842340

CATALOG NUMBER: ARCH4-300-740-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	7158.9	7158.9	7158.9	7158.9	7158.9	7158.9	7158.9	7158.9	7158.9	7158.9	7158.9
2.5°	7472.4	7465.9	7479.0	7433.2	7374.5	7367.9	7367.9	7328.7	7283.0	7191.6	7119.7
5°	7825.2	7812.1	7818.6	7753.3	7674.9	7635.7	7629.2	7544.3	7439.8	7296.1	7165.4
7.5°	8151.8	8138.7	8132.2	8060.3	7942.7	7877.4	7870.9	7746.8	7622.7	7400.6	7211.2
10°	8458.7	8445.7	8432.6	8334.6	8190.9	8093.0	8079.9	7923.1	7766.4	7492.0	7250.4
12.5°	8850.7	8824.5	8811.5	8693.9	8484.9	8380.4	8360.8	8151.8	7955.8	7622.7	7328.7
15°	9262.2	9242.6	9223.0	9111.9	8876.8	8739.6	8707.0	8445.7	8177.9	7792.5	7446.3
17.5°	9569.2	9549.6	9549.6	9451.6	9236.0	9079.3	9053.1	8739.6	8406.5	7949.3	7537.8
20°	9758.6	9739.0	9758.6	9699.8	9536.5	9405.9	9379.7	9033.6	8635.1	8093.0	7616.1
22.5°	9895.8	9876.2	9908.8	9882.7	9765.1	9686.7	9667.1	9327.5	8870.3	8243.2	7694.5
25°	10137.4	10137.4	10137.4	10091.7	9980.7	9954.5	9954.5	9660.6	9170.7	8439.2	7812.1
27.5°	10620.8	10594.7	10562.0	10431.4	10241.9	10235.4	10274.6	10000.3	9516.9	8693.9	7955.8
30°	11332.8	11319.7	11195.6	10921.3	10601.2	10568.5	10594.7	10366.0	9889.2	8961.7	8119.1
32.5°	12253.8	12208.0	11953.3	11541.8	11084.6	10934.3	10986.6	10744.9	10281.1	9236.0	8275.9
35°	12906.9	12920.0	12737.1	12364.8	11822.7	11424.2	11463.4	11169.5	10705.7	9543.0	8471.8
37.5°	13658.1	13703.8	13429.5	13148.6	12645.7	11966.4	12005.5	11607.1	11130.3	9928.4	8680.8
40°	14696.7	14605.2	14141.5	13808.3	13253.1	12534.6	12567.3	12097.0	11620.2	10294.2	8922.5
42.5°	15565.4	15402.1	14840.4	14415.8	13749.5	13135.6	13168.2	12626.1	12116.6	10699.2	9190.3
45°	16813.0	16362.3	15552.3	15343.3	14259.0	13723.4	13756.1	13187.8	12639.1	11130.3	9477.7
47.5°	17538.0	16819.5	16303.5	16192.5	14820.8	14330.9	14370.1	13782.2	13200.9	11620.2	9778.2
50°	17492.3	17028.5	16878.3	16604.0	15317.2	14899.2	14938.3	14396.2	13769.1	12103.5	10065.6
52.5°	17191.8	17276.7	17198.4	16741.1	15813.6	15447.8	15493.6	15003.7	14350.5	12554.2	10333.4
55°	17655.6	17714.4	17564.1	16963.2	16362.3	15996.5	16048.8	15643.8	14925.3	12952.7	10562.0
57.5°	18210.8	18001.8	17851.5	17355.1	16930.6	16590.9	16649.7	16297.0	15421.7	13272.7	10738.4
60°	18184.7	17747.0	17897.3	17381.3	17315.9	17139.6	17191.8	16832.6	15800.5	13507.9	10810.2
62.5°	16845.6	16610.5	17368.2	17191.8	17629.5	17629.5	17694.8	17159.2	16029.2	13605.8	10771.0
65°	14520.3	14533.4	15865.9	16597.4	18001.8	18302.2	18354.5	17361.7	15898.5	13318.4	10405.2
67.5°	11567.9	11652.8	13566.7	15088.6	17629.5	18759.5	18766.0	17544.6	15336.8	12508.5	9556.1
70°	8465.3	8530.6	10790.6	12639.1	15872.4	17747.0	17642.5	17028.5	14115.3	11097.6	8230.1
72.5°	5721.9	5780.7	8106.0	9706.3	13024.5	15114.7	14886.1	15049.4	12031.7	9118.5	6616.8
75°	3847.3	3919.1	5767.6	6943.4	9582.2	11476.5	10967.0	11398.1	9307.9	6904.2	4827.0
77.5°	2423.3	2469.0	3664.4	4552.7	6544.9	7812.1	7302.6	7309.1	5362.6	3716.6	2593.1
80°	1541.5	1554.6	2220.8	2625.8	3788.5	4696.4	4154.3	3377.0	2416.8	1972.6	1548.0
82.5°	894.9	875.3	1326.0	1482.7	1802.8	1783.2	1476.2	1397.8	1058.2	986.3	790.4
85°	359.3	333.1	581.3	542.1	548.7	581.3	431.1	431.1	346.2	267.8	196.0
87.5°	71.9	71.9	78.4	71.9	71.9	78.4	58.8	58.8	52.3	52.3	52.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P842340

CATALOG NUMBER: ARCH4-300-740-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7158.9	7158.9	7158.9	7158.9	7158.9	7158.9	7158.9	7158.9	7158.9	7158.9	7158.9
2.5°	7106.7	7093.6	7060.9	6976.0	6930.3	6904.2	6865.0	6851.9	6845.4	6851.9	6871.5
5°	7126.2	7080.5	6989.1	6851.9	6760.5	6701.7	6636.4	6610.2	6590.6	6590.6	6610.2
7.5°	7139.3	7067.5	6910.7	6708.2	6577.6	6486.1	6407.7	6375.1	6368.6	6388.2	6394.7
10°	7145.8	7041.3	6819.3	6564.5	6394.7	6277.1	6198.7	6179.1	6198.7	6237.9	6244.4
12.5°	7191.6	7047.9	6767.0	6466.5	6264.0	6146.5	6087.7	6087.7	6139.9	6211.8	6218.3
15°	7270.0	7093.6	6740.9	6388.2	6179.1	6074.6	6055.0	6087.7	6166.1	6277.1	6290.2
17.5°	7328.7	7119.7	6682.1	6283.6	6068.1	6002.8	6035.4	6113.8	6224.9	6375.1	6388.2
20°	7367.9	7119.7	6597.2	6159.5	5957.0	5944.0	6035.4	6159.5	6277.1	6453.5	6473.1
22.5°	7407.1	7106.7	6499.2	6009.3	5832.9	5872.1	6042.0	6198.7	6316.3	6505.7	6538.4
25°	7479.0	7126.2	6401.2	5859.1	5702.3	5813.3	6035.4	6224.9	6349.0	6544.9	6597.2
27.5°	7576.9	7172.0	6329.4	5721.9	5571.7	5721.9	5989.7	6218.3	6349.0	6538.4	6597.2
30°	7681.5	7224.2	6244.4	5571.7	5421.4	5591.3	5891.7	6146.5	6296.7	6473.1	6544.9
32.5°	7792.5	7283.0	6172.6	5408.4	5238.5	5414.9	5748.0	6035.4	6198.7	6362.0	6440.4
35°	7942.7	7387.5	6133.4	5277.7	5075.2	5232.0	5565.1	5891.7	6068.1	6218.3	6309.8
37.5°	8125.6	7518.2	6113.8	5147.1	4898.9	5029.5	5369.2	5715.4	5904.8	6028.9	6113.8
40°	8334.6	7681.5	6107.3	5023.0	4722.5	4820.5	5166.7	5512.9	5695.8	5793.8	5865.6
42.5°	8569.8	7864.3	6094.2	4898.9	4546.2	4624.6	4970.7	5310.4	5467.2	5552.1	5617.4
45°	8818.0	8047.2	6068.1	4748.7	4356.7	4448.2	4768.3	5068.7	5232.0	5303.9	5375.7
47.5°	9066.2	8230.1	6015.8	4578.8	4186.9	4271.8	4552.7	4814.0	4944.6	5009.9	5081.8
50°	9307.9	8393.4	5891.7	4382.9	4010.6	4088.9	4304.5	4480.9	4578.8	4631.1	4702.9
52.5°	9523.4	8504.5	5715.4	4154.3	3834.2	3873.4	4017.1	4167.3	4245.7	4252.2	4317.6
55°	9706.3	8563.3	5460.6	3919.1	3644.8	3651.3	3729.7	3847.3	3879.9	3853.8	3899.5
57.5°	9810.8	8530.6	5179.8	3677.4	3448.8	3422.7	3481.5	3540.3	3546.8	3481.5	3527.2
60°	9837.0	8380.4	4814.0	3435.8	3252.9	3181.0	3200.6	3187.5	3174.5	3148.4	3187.5
62.5°	9706.3	8060.3	4409.0	3200.6	3043.8	2932.8	2926.3	2919.7	2939.3	2945.9	2952.4
65°	9229.5	7459.4	3925.6	2958.9	2821.8	2671.5	2665.0	2743.4	2769.5	2730.3	2743.4
67.5°	8308.5	6538.4	3396.6	2678.1	2540.9	2410.3	2462.5	2508.2	2554.0	2540.9	2554.0
70°	7002.1	5369.2	2913.2	2364.5	2233.9	2162.0	2220.8	2260.0	2266.6	2253.5	2266.6
72.5°	5506.4	4193.4	2462.5	2044.5	1926.9	1894.2	1966.1	1998.7	2057.5	2083.7	2090.2
75°	3977.9	3096.1	2018.3	1698.3	1600.3	1600.3	1665.6	1724.4	1776.7	1744.0	1724.4
77.5°	2220.8	1848.5	1450.1	1169.2	1188.8	1280.2	1306.4	1371.7	1423.9	1417.4	1404.3
80°	1345.6	1156.1	979.8	757.7	751.2	823.0	992.8	1103.9	1130.0	1071.2	1064.7
82.5°	698.9	607.5	522.5	424.6	470.3	548.7	574.8	692.4	764.2	738.1	770.8
85°	176.4	169.8	189.4	196.0	241.7	267.8	293.9	346.2	228.6	111.0	111.0
87.5°	52.3	52.3	65.3	65.3	84.9	104.5	98.0	98.0	52.3	6.5	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)